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a. REPORT UU	b. ABSTRACT UU	c. THIS PAGE UU			19b. TELEPHONE NUMBER 404-385-0600

RPPR Final Report
as of 08-Feb-2018

Agency Code:

Proposal Number: 67397LS

Agreement Number: W911NF-15-1-0322

INVESTIGATOR(S):

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EIN: 580603146

Report Date: 31-Mar-2018

Date Received: 21-Dec-2017

Final Report for Period Beginning 15-Aug-2015 and Ending 31-Dec-2017

Title: INTERNATIONAL UNIVERSITY RESEARCH VENTURES: IMPLICATIONS FOR US ECONOMIC COMPETITIVENESS AND NATIONAL SECURITY

Begin Performance Period: 15-Aug-2015

End Performance Period: 31-Dec-2017

Report Term: 0-Other

Submitted By: Mark Taylor

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Distribution Statement: 1-Approved for public release; distribution is unlimited.

STEM Degrees: 1

STEM Participants: 5

Major Goals: The goal of this research is to study the quantity, quality, and implications of joint research ventures between American universities and foreign universities/research institutes. We call these entities "international university research ventures" (IURV's). We also seek to gather similar data on IURVs with entirely non-American participants. The results are expected to inform political and economic theories about technology transfer, innovation, economic competitiveness, and democratization/civil society. The research is expected to generate a descriptive list of existing and recent international university research ventures, and their basic characteristics (e.g participants, funders, fields of study). It should also generate interview and survey data that can be used to better understand the motivations behind, and management of, the joint research ventures. The data can be used to track participants, outputs, activities, and linkages over time, thus laying the baseline for future impact studies and theory testing. The results will also aid US policymakers to better identify and understand the sources of national competitive advantage in science and technology and the mechanisms of technology transfer. This research is especially important for the DoD because it is often the primary funder for the American research universities that participate in these international ventures.

Accomplishments: Data gathered and dataset created on US IURVs. This dataset summarizes the IURVs in which American "research-intensive" universities participate. Of the 108 US universities in this category, half (54) have IURVs. The total number of US IURVs is 183 ventures, hosted by foreign research institutions in 59 countries.

Data gathered and dataset created on International IURVs. This dataset summarizes the IURVs of 80 top non-US research-intensive universities representing 33 countries. In this sample, 46 universities from 16 countries were found to have 229 IURVs hosted by 59 countries.

Interviews and site visits were conducted in China, Singapore, France, Abu Dhabi, Vietnam, Brazil, and Chile

Training Opportunities: Graduate research assistants have been given training in database development, survey design, and case study protocol interviewing, reporting, and analysis.

RPPR Final Report

as of 08-Feb-2018

Results Dissemination: Journal Articles (Peer-Review):

Schmid, Jon, Kolesnikov, Sergey, Youtie, Jan (2017). Plans versus Experiences in Transitioning Transnational Education into Research and Economic Development: A Case Study. *Science and Public Policy*. doi: 10.1093/scipol/scx051

Youtie, Jan, Li, Yin, Rogers, Juan, Shapira, Philip. (2017) Institutionalization of International University Research Ventures. *Research Policy* 46(9):1692-1705

Kolesnikov, Sergey, Woo, Seokkyun, Li, Yin, Shapira, Philip, Youtie, Jan. (2017). Mapping the Emergence of International University Research Ventures. *Journal of Technology Transfer* doi 10.1007/s10961-017-9640-6

White Papers and Conference Proceedings:

Woo, Seokkyun, Kolesnikov, Sergey (2017). Mapping the International University Research Ventures. White paper submitted to the Georgia Tech Research and Innovation Conference, February 3, 2017.

Taylor, Zak, Rogers, Juan, Shapira, Philip, Youtie, Jan, Adebola, Olufunke, Kolesnikov, Sergey, Li, Yin, Schmid, Jon, Woo, Seokkyun (2016). International University Research Ventures: Implications for US Economic Competitiveness and National Security

Presentations:

Youtie, Jan. (2017). Internationalization of International University Research Ventures, Atlanta Conference on Science and Innovation Policy, October 10-11, 2017

Youtie, Jan (2017). Mapping the Emergence of International University Research Ventures. Manchester Institute for Innovation Research Seminar Series, March 20, 2017, Alliance Manchester Business School, Manchester, UK.

Kolesnikov, Sergey (2017). International University Research Ventures: An Emergent Node in Global Knowledge Networks? EU-SPRI Forum: "The Future of STI – The Future of STI Policy," June 7-June 9, 2017, Vienna, Austria.

Woo, Seokkyun (2017). Mapping the Emergence of International University Research Ventures. DRUID Conference, June 12-14, 2017. New York, New York.

Youtie, Jan (2017). Mapping the Emergence of International University Research Ventures, Innovation Co-Lab Annual Meeting, May 2, 2017, Beijing, China.

Shapira, Philip (2017). Current Research on Higher Education (including Emergence of International University Research Ventures). Higher Education Research Showcase. University of Manchester, June 7, 2017

Conference Panel:

Panel on International University Operations at the Atlanta Conference on Science and Innovation Policy, October 2017. Atlanta, GA. Papers: Investigating the Convening and Engagement Roles of Science and Technology-Oriented Universities: Case Studies from Emerging Economies (Afreem Siddiqi, MIT); Differential network formation, research re-orientation, and governance challenges in international capacity-building partnerships (Sebastian Pfotenhauer, Technical University of Munich; Mackenzie Hird, MIT); Hosting international research collaborations: Experiences in Chile (Pablo Catalan, University of Concepcion, Chile; Ernesto Escobar, Georgia Institute of Technology); International University Research Ventures: The Global Emergence and Significance of Trans-Border Academic Research Institutions (S. Kolesnikov, S. Woo, S., J. Youtie, & P. Shapira, P.).

Pending Presentation

Shapira, P. Institutionalization and Implications of International University Research Ventures. Under review for American Association for Advancement of Science, 2018 Annual Meeting, Austin, Texas. February 2018.

Honors and Awards: Nothing to Report

RPPR Final Report
as of 08-Feb-2018

Protocol Activity Status:

Technology Transfer: Nothing to Report

PARTICIPANTS:

Participant Type: PD/PI

Participant: Mark Zachary Taylor

Person Months Worked: 1.00

Project Contribution:

International Collaboration:

International Travel:

National Academy Member: N

Other Collaborators:

Funding Support:

Participant Type: Co PD/PI

Participant: Juan Rogers

Person Months Worked: 1.00

Project Contribution:

International Collaboration:

International Travel:

National Academy Member: N

Other Collaborators:

Funding Support:

Participant Type: Co PD/PI

Participant: Phillip Shapira

Person Months Worked: 1.00

Project Contribution:

International Collaboration:

International Travel:

National Academy Member: N

Other Collaborators:

Funding Support:

Participant Type: Co PD/PI

Participant: Jan Youtie

Person Months Worked: 1.00

Project Contribution:

International Collaboration:

International Travel:

National Academy Member: N

Other Collaborators:

Funding Support:

Participant Type: Graduate Student (research assistant)

Participant: Jon Schmid

Person Months Worked: 1.00

Project Contribution:

International Collaboration:

International Travel:

National Academy Member: N

Other Collaborators:

Funding Support:

Participant Type: Graduate Student (research assistant)

Participant: Sergey Kolesnikov

Person Months Worked: 1.00

Funding Support:

RPPR Final Report
as of 08-Feb-2018

Project Contribution:
International Collaboration:
International Travel:
National Academy Member: N
Other Collaborators:

Participant Type: Graduate Student (research assistant)

Participant: Seokbeom Kwon

Person Months Worked: 1.00

Funding Support:

Project Contribution:
International Collaboration:
International Travel:
National Academy Member: N
Other Collaborators:

Participant Type: Graduate Student (research assistant)

Participant: Seokkyun Woo

Person Months Worked: 1.00

Funding Support:

Project Contribution:
International Collaboration:
International Travel:
National Academy Member: N
Other Collaborators:

Participant Type: Graduate Student (research assistant)

Participant: Seokkyun Woo

Person Months Worked: 1.00

Funding Support:

Project Contribution:
International Collaboration:
International Travel:
National Academy Member: N
Other Collaborators:

Participant Type: Undergraduate Student

Participant: Jillian Stevens

Person Months Worked: 1.00

Funding Support:

Project Contribution:
International Collaboration:
International Travel:
National Academy Member: N
Other Collaborators:

ARTICLES:

RPPR Final Report as of 08-Feb-2018

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Article Title: Plans versus Experiences in Transitioning Transnational Education into Research and Economic Development: A Case Study

Authors: Jon Schmid, Sergey Kolesnikov, Jan Youtie

Keywords: scientific research, economic development, university

Abstract: Little is known about how transnational educational campuses adopt research and economic development functions. This case study draws on interviews, historical documents, and bibliometric and patent analysis to describe the efforts of one of the longest standing US transnational campuses—Georgia Tech Lorraine—to integrate into the Lorraine region of France by adding research and economic development missions. In describing the campus's evolution, this article highlights key markers indicating the transition to novel competencies. The results indicate that the adoption of new missions is characterized by plans, mixed success, and re-orientation rather than by a directed or designed process. Additionally, the study suggests that efforts to transplant successful programs from the home university to the Lorraine campus were less successful than those involving host region-led partnerships.

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CONFERENCE PAPERS:

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Publication Status: 0-Other

Conference Name: R&D Management Conference 2016 "From Science to Society: Innovation and Value Creation"

Date Received: 07-Aug-2016

Conference Date: 03-Jul-2016

Date Published: 07-Jul-2016

Conference Location: Cambridge, UK

Paper Title: What are the Implications of the Growth of International University Research Ventures?

Authors: Philip Shapira, Jan Youtie, Mark Taylor

Acknowledged Federal Support: Y

Publication Type: Conference Paper or Presentation

Publication Status: 0-Other

Conference Name: Atlanta Conference on Science and Innovation Policy

Date Received:

Conference Date: 10-Oct-2017

Date Published:

Conference Location: Atlanta, GA

Paper Title: Internationalization of International University Research Ventures

Authors: Jan Youtie

Acknowledged Federal Support: Y